1982 Article Index

ELECTRICAL/ELECTRONICS ASSEMBLY

- Staying Competitive-Assembly Ideas That Work, Jan. p. 22
- Advanced Electronic Telephone Assembly Higher Productivity, Lower Costs, Feb.
- Overview: Approaches for Automatically Testing PCB's, Part 1, Kenneth Jessen, Hewlett Packard, Loveland, CO, Mar. p. 16
- Overview: Approaches for Automatically Testing PCB's, Part 2, Kenneth Jessen, Hewleit Packard, Loveland, CO, Apr. p. 18
- Overview: Approaches for Automatically Testing PCB's, Part 3, Kenneth Jessen, Hewlett Packard, Loveland, CO, May p. 14
- Overview: Approaches for Automatically Testing PCB's, Part 4, Kenneth Jessen, Hewlett Packard, Loveland, CO, June p. 12
- Wire Assembly ATE, July p. 30
- Automated Solar-Cell Array Assembly, July p. 40
- Programming PWB's Around Corners, July p. 43
- Productivity Boosting Tools for Electronic Assembly, Aug. p. 10
- Flex-Line: Factory of the Future from Stock Michael Neuroth. Components. Datatronics, Rochester, NY, Sept. p. 32
- Wire Wrapping Production Considerations, Harland Harris, Bell Aerospace, Buffalo, NY, Oct. p. 18
- Ford's Flexible Component Testing, Max Trescott, Hewlett Packard, Rockaway, NJ, Oct. p. 24
- State-of-the-Art Electronic Connectors, Part 1, William Butler, AMP Inc., Harrisburg, PA, Nov. p. 12
- State-of-the-Art Electronic Connectors, Part 2, William Butler, AMP Inc., Harrisburg, PA, Dec. p. 16
- Automated Electric Motor Testing Boosts Productivity, Al Haun, Analog Devices, Inc., Norwood, MA, Dec. p. 20

IDEAS and **DEVELOPMENTS**

- Electromagnetic Dent Remover, Oct. p. 27 CADD Automates an Automator, Oct. p. 31 Higher Productivity with Semiautomatic Wire Twisting, Oct. p. 35

DESIGN/FASTENING/JOINING

- Products. Solutions and Cost Savings in Fastening/Joining, Jan. p. 34
- All About Stud Welding, Part 1, John Jenkins, Nelson Div. TRW, Feb. p. 18
- All About Stud Welding, Part 2, John Jenkins, Nelson Div. TRW, Mar. p. 28
- Electronic Head Bolt Tensioning Solves Gasketing Problems, Robert Finkelston, SPS Technologies, Apr. p. 26
- Design Guide for Warm Formed Special Parts, David Gatny, MSP Industries, Center Line, MI, May p. 22
- Superplastic Metals Forming, May. p. 30

- Researching the Rattle, E.R. Friesth, June p. 20 Winning Trade Wars, Charles Wilson, Industrial Fastener Institute, June p. 24
- Applications for Advanced Adhesives, Tom Inglesby, July p. 10
- High Flying Fasteners, Tom Inglesby, July p. 19 Fastening Plastics, Part 1, Kenneth Gomes, Continental Screw, Aug. p. 24
- Fastening Plastics, Part 2, Kenneth Gomes. Continental Screw. Sept. p. 26
- Corrosion Protection for Fasteners, Part 1, Mary Emrich, Oct. p. 36
- Corrosion Protection for Fasteners, Part 2, Mary Emrich, Nov. p. 17
- Plastic Fasteners Take Hold In Industry, Robert Waterbury, Dec. p. 10

IDEAS and DEVELOPMENTS

- Simplified Installation of Strain Gages in Structural Bolts, Mar. p. 37
- High Strength Bolts for Giant Haulers, Mar
- New Welding Electrode for Low Alioy Steel, May p. 2
- Automating Aerosol Valve Assembly, May p. 28

SME Establishes CARIC-A New Computer Robotic Info Center, July p. 20

ASSEMBLY SYSTEMS PRODUCTION/TEST

- Systems Approach Boosts Productivity, Slashes Costs, Jan. P. 46
- Tools for Reliable Fastening, Terrence Thompson, Feb. p. 26
- Design for Producibility-The Road to Higher Productivity, G. Boothroyd, University of Massachusetts, Mar. p. 42
- Labels + Computer = Improvements, Tom Inglesby, Apr. p. 34
- The PC From A to Z. Part 1, R.E. Morley and A.H Libby. Gould Inc., May p. 34
- The PC From A to Z. Part 2. Walter Bennet. Gould Inc., Andover, MA, June p. 32
- Overview: Automatic Assembly & Test Systems. Terrence Thompson, June p. 38
- The PC From A to Z, Part 3, Bruce Rusch, Gould, Inc., Andover, MA, July p. 44
- The PC and Automation, Tom Inglesby, Aug. p. 28
- Assembly Engineering & Manufacturing Con-ference & Exhibit, Sept. p. AE-1
- Conveyor Simulation Speeds Installation, Tom Inglesby, Sept. p. 22
- Manufacturing Rating System for Printed Wiring Assemblies, Jim Bingel and Peter

FUNDAMENTALS OF RAZII

A 20 hour, "hands-on" program for assembly engineers.

- · Structured for individuals at all levels of braz-ing/soldering experience.
- · An important segment is the application of fundamentals to your brazing/soldering problems.
- · Sessions are under the direction of Mr. Clarence Van Dyke who is recognized as a national authority on brazing and soldering.

AS A PARTICIPANT, YOU ARE INVITED TO BRING YOUR PROBLEM ASSEMBLIES TO CLASS ... FOR EVALUATION AND SOLUTION.

For complete information, call Brazing Course Program Assistant at

800-558-3856

or write for descriptive literature

Lucas-Milhaupt, Inc. A Handy & Harman Company



5656 S. Pennsylvania Avenue, Cudahy, WI 53110 • Telex-26789

Schliro, General Electric, Bridgeport, CT, Oct. p. 42

Implementing Automated Assembly—Blueprint for Success, Dale Slaubaugh, Chrysler Transmission, Kokomo, IN, Tim Fredrick, Ingersoll-Rand, Farmington, Hills, Ml, Nov. p. 26

AMC Assembles A Quality Alliance, Robert Waterbury, Dec. p. 26

IDEAS and DEVELOPMENTS

Sound Procedures on the Assembly Line, Eric Ford, London, England, May p. 41

Computer Design Trims Airline Seats, July p. 49

Big Diesels Have Small Parts in the Bag, Oct. p. 49

Rolling Along in Detroit—1982 Assembly Show, Dec. p. 8

Flexibility in British Axle Assembly, Alan Baker, ACGI, FlMechE, London, England, Dec. p. 30

MANAGEMENT

Quality: The Key to Unlocking Productivity, Craig Walter, Hewlett Packard, Loveland, CO, Jan. p. 60

Simulating Can Be Stimulating, Tom Inglesby, Feb. p. 36

CAD/CAM: Should we ... or shouldn't we?, Tom Inglesby, Mar. p. 48 Justifying Assembly Automation, Part 1, Norman Naidish, Revlon, Inc., Edison, NJ, Apr. p. 46

Selecting Robots for Assembly Operations, Charles Berger, Honeywell, Waltham, MA, May p. 42

Justifying Assembly Automation, Part 2, Some Other Considerations, Norman Naidish, Revlon, Inc., Edison, NJ, May p. 48

Getting to the Heart of CAD/CAM, Tom Inglesby, June p. 46

Justifying Assembly Automation, Part 3, Some Other Considerations, Norman Naidish, Revlon, Inc., Edison, NJ, June p. 50

Annual Assembly Show: A Time For Action, July p. 22

Justifying Assembly Automation: An Energy Audit, Aug. p. 37

Justifying Automation "Just in Time?," Sept. p. 35

The Many Sides of CAD/CAM, Tom Inglesby, Oct. p. 10

Bar Codes Are Right, Right Now, Tom Inglesby, Nov. p. 34

General Electric's Factory With a Future, Terrence Thompson, Dec. p. 34

IDEAS and **DEVELOPMENTS**

Production Control and Modern Processes Boost Plant Efficiency, Slash Lead Times, Jan. p. 63

Intelligent Machines—Getting Smarter?, Eric Ford, London, England, Mar. p. 53

Fuel Tanks Welded and Sealed 8/Minute, May p. 49

Self-Piercing Rivet Saves Time/Labor, June p. 51

Assembly Show Luncheon Speaker Serves-Food for Thought, Aug. p. 38

COMPUTER POWER

Is Automatic Software Generation Feasible? C.H. Link, CAM-I, Arlington, TX, Jan. p. 64

Case Study: Small Business Automation, C.H. Link, CAM-I, Arlington, TX, Mar. p. 40

Swedish Unions Study Automation in America, C.H. Link, CAM-I, Arlington, TX, Apr. p.40

Getting Started in CAD/CAM, William Carter, CAM-I, Arlington, TX, May p. 51

Selecting CAD/CAM Graphics, William Carter, CAM-I, Arlington, TX, June p. 55

Computer Graphics and Quality, William Carter, CAM-I, Arlington, TX, July p. 16

GENPLAN & Quality, William Carter, CAM-I, Arlington, TX, Oct. p. 17

Computers and Flexible Manufacturing, William Carter, CAM-I, Arlington, TX, Dec. p. 39

SUPER SOLDER SAVER SUGGESTIONS

Chip Component Soldering Problems? Joe Keller, Motorola, Inc., Ft. Lauderdale, FL, July p. 33

Lifted Plated-Through Holes—Good or Bad? Joe Keller, Motorola, Inc., Ft. Lauderdale, FL, Aug. p. 16

Laser Evaluation of Solder Joints, Joe Keller, Motorola, Inc., Ft. Lauderdale, FL, Oct. p. 30

DOWN the LINE

Reinventing the Gear, Jan. p. 104
Bi-radiant Brownies in Your Future, Mar. p. 88
Let's Play Engineer, Apr. p. 80
Erroe Wheeling Engray, June p. 88

Free-Wheeling Energy, June p. 88
Electronic Assembly Guild: Est.

Electronic Assembly Guild: Est. 1982, July p. 68 Turbines Are Here With The Wind, Aug. p. 72

BACteriá-Man vs OPEC?, Sept. p. 72
The Multipurpose, Un-mechanical Motor, Dec. p. 56

ASSEMBLY ATE (Automatic Test Equipment)

Special Problems In Testing Microprocessor-Based Products, July p. 38

A Brief Review of Testing Techniques for Microprocessor-Based Products, Kenneth Jessen, Hewlett Packard, Loveland, CO, July p. 39

Why Design for Testability?, Kenneth Jessen, Hewlett Packard, Loveland, CO, Aug. p. 21

Testability Can Yield Improved Profits, Requirements for Testability, Kenneth Jessen, Hewlett Packard, Loveland, CO, Oct. p. 29

For a copy of this article, circle No. 209 on reader information card.



ERIE COUNTY . PHONE (814) 474-5561

WRITE TODAY . . . Tell us what you want to feed; we'll show you how!

